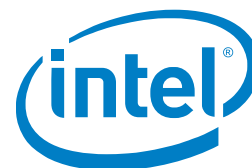


PRODUCT BRIEF

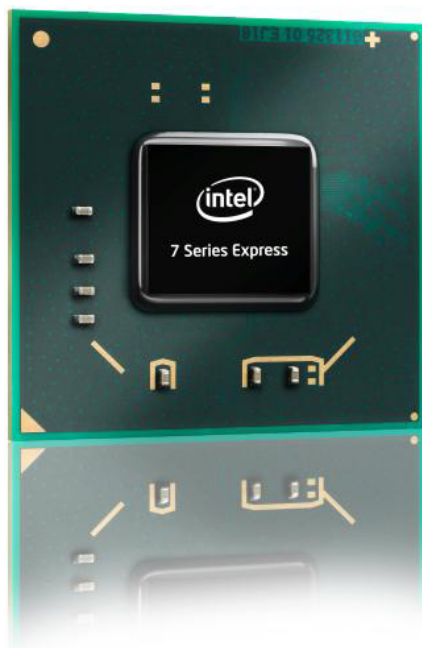
Mobile Intel® 7 Series HM76 Express
Chipset – Mainstream Chipset for
Consumers Notebook



Mainstream, Integrated USB 3.0 Notebook Chipset

Mobile Intel® 7 Series HM76 Express Chipset and 3rd Generation Intel® Core™ Processors

For mainstream notebook, look for the 3rd generation Intel® Core™ processor family and the Mobile Intel® 7 Series HM76 Express Chipset. This new notebook platform features new processor features and integrated USB 3.0, combined with improved system responsiveness.



Smarter Performance

The combination of the Mobile Intel® 7 Series HM76 Express Chipset and 3rd generation Intel® Core™ processors delivers mainstream notebook experience, thanks to the combination of smart features like Intel® Turbo Boost Technology 2.0¹ and Intel® Hyper-Threading Technology² which together activate full processing power exactly where and when you need it.

Increased Responsiveness

Intel® Smart Connect Technology³ enables instant access to your data by allowing your content to be refreshed in the standby power state—all while minimizing power consumption. In addition to faster boot and resume times, Intel® Rapid Start Technology⁴ provides energy efficiency without sacrificing user experience.

Improved Built-In Visuals

With smart performance and built-in 3D visual and graphics support, the 3rd generation Intel Core processor family will add a new dimension to your notebook experience.⁶ Intel® Quick Sync Video technology, our built-in hardware acceleration technology in all 3rd generation Intel Core processors, delivers astonishing video transcoding performance, enabling your notebook to edit, burn, and share your content faster—without the need for add-in hardware. InTru™ 3D

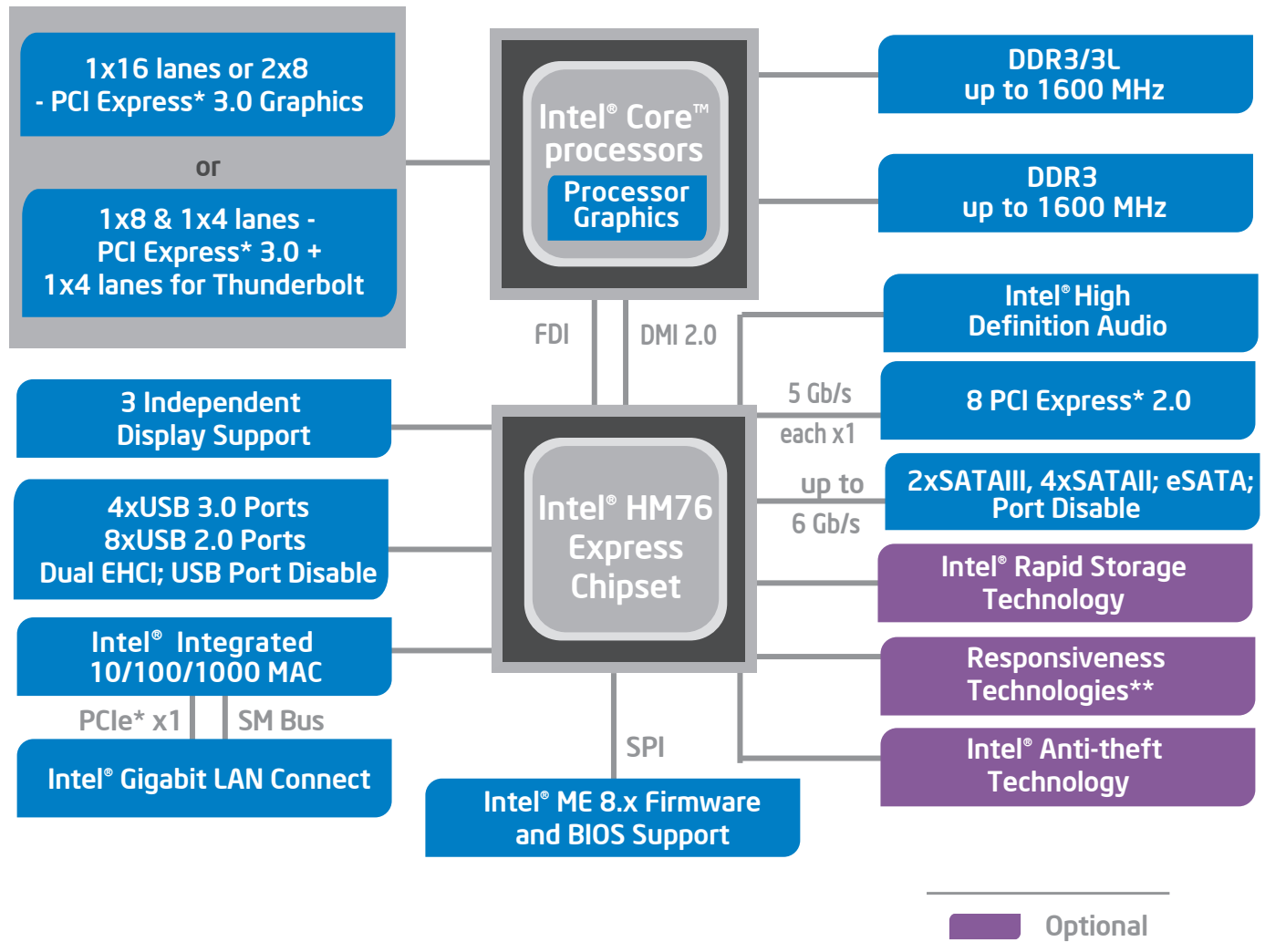
Technology⁷ delivers 3D movie playback without hesitation or interruption. The Mobile Intel® 7 Series HM76 Express Chipset and 3rd generation Intel Core processors now come with built-in Intel® Wireless Display (Intel® WiDi),⁸ allowing users to view content from their desktop notebook to an Intel® WiDi-enabled TV screen. The Mobile Intel® 7 Series HM76 Express Chipset also supports up to three displays.⁹

The Mobile Intel® 7 Series HM76 Express Chipset delivers the latest platform features for superb system performance with the latest I/O technologies

The Mobile Intel® 7 Series HM76 Express Chipset integrates several capabilities to provide flexibility for connecting I/O devices. Integrated USB 3.0 support helps you connect faster to your digital life. The latest Intel® Rapid Storage Technology¹⁰ enables the full Serial ATA (SATA) interface speed of up to 6 Gb/s to support next-generation Solid State Drives (SSDs) and traditional Hard Disk Drives (HDDs). In addition, the Mobile Intel® 7 Series HM76 Express Chipset drives lower power through enhanced link power management of the Advanced Host Controller Interface (AHCI), enable easier expandability with support for native hot plug, and enhance boot and multitasking performance with Native Command Queuing (NCQ).

Intel® Rapid Recover Technology (part of the Intel Rapid Storage Technology suite) provides a fast, easy-to-use method for the end user to recover their data and return their system to an operational status.

Mobile Intel® 7 Series HM76 Express Chipset Block Diagram



* Other Names and Brands maybe claimed as property of others.

**Includes Intel® Rapid Start Technology and Intel® Smart Connect Technology

Mobile Intel® 7 Series HM76 Express Chipset Features at a Glance

Features	Benefits
Support for 2nd and 3rd generation Intel® Core™ processors	▪ Support for 2nd and 3rd generation Intel® Core™ processors with Turbo Boost Technology 2.0,1 Intel® Pentium® processor, and Intel® Celeron® processor. Mobile Intel® 7 Series HM76 Express Chipset also enables overclocking features of unlocked 3rd generation Intel Core processors.
Intel® Rapid Storage Technology10	▪ With additional hard drives added, provides quicker access to digital photo, video and data files with RAID 0, 5, and 10, and greater data protection against a hard disk drive failure with RAID 1, 5, and 10. ▪ Support for external SATA (eSATA) enables the full SATA interface speed outside the chassis, up to 3 Gb/s.
Intel® Rapid Recover Technology	▪ Intel's latest data protection technology provides a recovery point that can be used to quickly recover a system should a hard drive fail or if there is data corruption. The clone can also be mounted as a read-only volume to allow a user to recover individual files.
Intel® High Definition Audio11	▪ Integrated audio support enables premium digital surround sound and delivers advanced features such as multiple audio streams and jack re-tasking.
Intel® Smart Connect Technology3	▪ Provides faster application refresh by allowing applications to be updated in a low-power state.
Intel® Rapid Start Technology4	▪ Allows quick system resumes from the hibernate state.
Universal Serial Bus 3.0	▪ Integrated USB 3.0 support, provides greater enhancement in performance with a design data rate of up to 5 gigabits per second (Gbps) with up to 4 USB 3.0 ports.
Universal Serial Bus 2.0	▪ Hi-Speed USB 2.0 support with a design data rate of up to 480 megabits per second (Mbps) with up to 12 USB 2.0 ports.
USB 2.0 Rate Matching Hub	▪ Enables lower power requirements and manages the transition of the communication data rate from the high speed of the host controller to the lower speed of USB full-speed/low-speed devices.
Serial ATA (SATA) 6 Gb/s	▪ Next-generation high-speed storage interface supporting up to 6 Gb/s transfer rates for optimal data access with up to 2 SATA 6Gb/s ports.
Serial ATA (SATA) 3 Gb/s	▪ High-speed storage interface supporting up to 4 SATA 3Gb/s ports.
eSATA	▪ SATA interface designed for use with external SATA devices. Provides a link for 3 Gb/s data speeds to eliminate bottlenecks found with current external storage solutions.
SATA Port Disable	▪ Enables individual SATA ports to be enabled or disabled as needed. This feature provides added protection of data by preventing malicious removal or insertion of data through SATA ports. Especially targeted for eSATA ports.
PCI Express* 2.0 Interface	▪ Offers up to 5 GT/s for fast access to peripheral devices and networking with up to 8 PCI Express 2.0 x1 ports, configurable as x2 and x4 depending on motherboard designs.
USB Port Disable	▪ Enables individual USB ports to be enabled or disabled as needed. This feature provides added protection of data by preventing malicious removal or insertion of data through USB ports.
Intel® Integrated 10/100/1000 MAC	▪ Support for the Intel® 82579LM Gigabit Network Connection.
Green Technology	▪ Manufactured with lead-free and halogen-free component packages.

For more information, visit the Intel Web site: www.intel.com/content/www/us/en/chipsets/performance-chipsets/notebook-desktop-performance-chipsets.html

- 1 Requires a system with Intel® Turbo Boost Technology capability. Intel Turbo Boost Technology 2.0 is the next generation of Turbo Boost Technology and is only available on 2nd gen Intel® Core™ processors. Consult your notebook manufacturer. Performance varies depending on hardware, software, and system configuration. For more information, visit <http://www.intel.com/technology/turboboost>.
- 2 Requires an Intel® HT Technology enabled system, check with your notebook manufacturer. Performance will vary depending on the specific hardware and software used. For more information including details on which processors support HT Technology, visit <http://www.intel.com/info/hyperthreading>.
- 3 Requires a select Intel® processor, Intel® software and BIOS update, Intel® wireless adapter, and Internet connectivity. Solid state memory or drive equivalent may be required. Depending on system configuration, your results may vary. Contact your system manufacturer for more information.
- 4 Requires a select Intel® processor, Intel® software and BIOS update, and a small Solid-State Drive (SSD). Depending on system configuration, your results may vary. Contact your system manufacturer for more information.
- 5 Requires a select Intel® processor, enabled chipset, Intel Rapid Storage Technology software, and a properly configured SSD hard drive. Depending on system configuration, your results may vary. Contact your system manufacturer for more information.
- 6 Built-in visual features are not enabled on all notebooks and optimized software may be required. Check with your system manufacturer. Learn more at <http://www.intel.com/go/biv>.
- 7 Viewing stereo 3D content requires 3D glasses and a 3D-capable display. Physical risk factors may be present when viewing 3D material.
- 8 Requires an Intel® Wireless Display-enabled system, compatible adapter, and TV. 1080p and Blu ray® or other protected content playback only available on 2nd or 3rd gen Intel® Core™ processor-based notebooks with built-in visuals enabled, a compatible adapter and media player, and supporting Intel WiDi software and graphics driver installed. Consult your notebook manufacturer. For more information, see www.intel.com/go/widi.
- 9 Requires the use of a 3rd Generation Intel® Core™ processor. This feature is dependent on your system configuration.
- 10 Intel® Rapid Storage Technology requires the computer have an Intel RST-enabled Intel chipset, RAID controller in the BIOS enabled and the Intel Rapid Storage Technology software driver installed. Please consult your system vendor for more information.
- 11 Requires an Intel® HD Audio enabled system. Consult your notebook manufacturer for more information. Sound quality will depend on equipment and actual implementation. For more information about Intel® HD Audio, refer to <http://www.intel.com/design/chipsets/hdaudio.htm>.

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